

## Permit Fact Sheet

### General Information

Permit Number:	WI-0063975-03-0
Permittee Name:	Rickert Bros LLC
Address:	Dairy Site: W9150 Lincoln Road Heifer Site: W9135 Lincoln Road Steer Site: W8959 Lincoln Road
City/State/Zip:	Eldorado WI 54932
Discharge Location:	Eldorado Marsh-Fond Du Lac River and Eightmile Creek watersheds, and groundwater of the state

#### Animal Units

	Current AU		Proposed AU (Note: If all zeroes, expansions are not expected during permit term)		
	Mixed	Individual	Mixed	Individual	Date of Proposed Expansion
Dairy Calves (under 400 lbs.)	70	0	92	0	08/15/2022
Milking and Dry Cows	1400	1430	1680	1716	08/15/2022
Heifers (400 lbs. to 800 lbs.)	180	300	255	425	08/15/2022
Heifers (800 lbs. to 1200 lbs.)	270	245	347	315	08/15/2022
Steers or Cows (400 lbs. to market)	40	40	40	40	08/15/2022
Bulls (each)	42	30	42	30	08/15/2022
Total	2002	1430	2456	1716	

### Facility Description

**Rickert Bros LLC (Rickert Bros) is an existing Concentrated Animal Feeding Operations (CAFO) for dairy cattle located in the Town of Eldorado in Fond du Lac County, Wisconsin. Rickert Bros consists of three production sites, Main Site, Heifer Site, and Steer Site. The Main Site is at located W9150 Lincoln Road, Eldorado, WI 54932. The Heifer Site is located at W9135 Lincoln Road, Eldorado, WI 54932. The Steer Site is located at W8959 Lincoln Road, Eldorado WI 54932. Rickert Bros is owned and operated by Greg Rickert.**

**The Main Site consists of 3 freestall barns, a youngstock barn, 2 calf hutch areas, 3 waste storage facilities, and a solid separator system. The Heifer Site consists of 4 feed storage areas, a calf hutch area, 2 waste storage facilities, and 2 outdoor lots. The Steer Site consists of 1 waste storage facility and 1 outdoor lot. A waste transfer system collects and discharges animal waste and process wastewater from the freestall barns to the waste storage facilities at the Main Site and Heifer Site.**

**The current herd size is 2,002 animal units. The proposed herd size by 2022 is 2,456 animal units. There is no expansion planned over the upcoming permit term besides internal growth. Approximately 11,721,953 million gallons of liquid manure and process wastewater, and 3,626 tons of solid manure is produced annually at the**

current herd size. Rickert Bros has approximately 200 days of storage capacity. Rickert Bros owns or rents 1,999 acres of cropland, of which approximately 1,883.7 acres are available for manure application.

Sample Point Designation For Animal Waste		
Sample Point Number	Sample Point Location, WasteType/sample Contents and Treatment Description (as applicable)	
001	WSF 1: Sample point 001 is for liquid waste storage facility 1 (WSF 1) located at the Dairy Site. WSF 1 is an in-place earthen storage located northeast of WSF 2. The facility has a capacity (MOL) of 3,572,470 gallons and was constructed in 1999. This storage accepts manure and process wastewater from freestall barns 1, 2, and 3 and the milking parlor. WSF 1 will require an engineering evaluation, see Schedules section for due dates.	
002	WSF 3 (liquids): Sample point 002 is for waste storage facility 3 (WSF 3) located at the Dairy Site. WSF 3 is a concrete stacking pad that stores solid and liquid manure and is located east of the youngstock barn. The facility has a capacity (MOL) of 12,968 gallons and was constructed in 2012 with department approval. This storage accepts manure and process wastewater from the youngstock barn.	
003	WSF 2: Sample point 003 is for liquid waste storage facility 2 (WSF 2) located at the Dairy Site. WSF 2 is a slurry-store storage located on the southwest of WSF 1. The facility has a capacity (MOL) of 2,176,270 gallons and was constructed in 2009. This storage accepts manure and process wastewater from WSF 1.	
004	WSF 5: Sample point 004 is for liquid waste storage facility 5 (WSF 5) located at the Heifer Site. WSF 5 is a slurry store storage located south of feed storage area 1. The facility has a capacity (MOL) of 521,787 gallons and was constructed in 2013 with department approval. This storage accepts manure and process wastewater from the Heifer Site.	
005	WSF 8: Sample point 005 is for liquid waste storage facility 8 (WSF 8) located at the Steer Site. WSF 8 is an under-barn storage. The facility has a capacity (MOL) of 104,840 gallons and was constructed in 1983. This storage accepts manure and process wastewater from the Steer Barn. WSF 8 was last evaluated in 2007 and met permit requirements.	
006	Dairy Site Solid Manure: Sample point 006 is for solid manure sources at the Dairy Site that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	
007	Heifer Site Solid Manure: Sample point 007 is for solid manure sources at the Heifer Site that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	
008	Steer Site Solid Manure: Sample point 008 is for solid manure sources at the Steer Site that are directly land applied and not stored in a waste storage facility. This includes solid sources such as calf hutch manure, maternity pen bedpack, heifer bedpack, steer manure, etc. Representative samples shall be taken for each manure source type.	
009	Feed Area 1 & Runoff Controls: Sample point 009 is for visual monitoring and inspection of feed storage area 1 and associated runoff control system located at the Heifer Site north of WSF 5. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. An engineering evaluation of the feed storage area 1 and runoff control system shall be submitted according to the Schedules section of the permit.	

<b>Sample Point Designation For Animal Waste</b>		
<b>Sample Point Number</b>	<b>Sample Point Location, WasteType/sample Contents and Treatment Description (as applicable)</b>	
010	Outdoor Lot 1 & Runoff Controls: Sample point 010 is for visual monitoring and inspection of outdoor lot 1 and associated runoff control system located at the Heifer Site west of WSF 6. Outdoor lot 1 runoff is directly collected in WSF 6. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. An engineering evaluation of outdoor lot 1 and runoff control system shall be submitted according to the Schedules section of the permit.	
011	Outdoor Lot 2 & Runoff Controls: Sample point 011 is for visual monitoring and inspection of outdoor lot 2 and associated runoff control system located at the Heifer Site west of WSF 5. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. An engineering evaluation or abandonment plan of outdoor lot 2 and runoff control system shall be submitted according to the Schedules section of the permit.	
012	Outdoor Lot 3 & Runoff Controls: Sample point 012 is for visual monitoring and inspection of outdoor lot 3 and associated runoff control system located at the Steer Site. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. An engineering evaluation of outdoor lot 3 and runoff control system shall be submitted according to the Schedules section of the permit.	
013	WSF 6 (liquids): Sample point 013 is for waste storage facility 6 (WSF 6) located at the Heifer Site. WSF 6 is a stacking pad that stores solid and liquid manure located to the east of freestall barn 5. The facility has a capacity (MOL) of 24,871 gallons and was constructed in 2008 with department approval. This storage accepts manure and process wastewater from freestall barn 5.	
014	Solid Separator System: Sample point 014 is for the solids separator system located at the Dairy Site. The solids separator system was constructed with department approval in 2017. Separated solids are reused as bedding in the freestall barns. Unused separated solids are stored to the southeast of the covered building in a bunker and either directly land applied in accordance with Rickert Bros' NMP or taken to a WSF.	
015	Feed Area 2 & Runoff Controls: Sample point 015 is for visual monitoring and inspection of feed storage area 2 and associated runoff control system located at the Heifer Site north of feed storage area 1. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. An engineering evaluation of the feed storage area 2 and runoff control system shall be submitted according to the Schedules section of the permit.	
016	Feed Area 3 & Runoff Controls: Sample point 016 is for visual monitoring and inspection of the feed storage area 3 and associated runoff control system located at the Heifer Site west of Feed Storage Area 1 and 2 where feed is usually stored in agricultural feed bags. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. An engineering evaluation of the feed storage area 3 and runoff control system shall be submitted according to the Schedules section of the permit.	
017	Feed Area 4 & Runoff Controls: Sample point 017 is for visual monitoring and inspection of the feed storage area 4 and associated runoff control system located at the Heifer Site south of WSF 5. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program. An engineering evaluation of the feed storage area 4 and runoff control system shall be submitted according to the	

Sample Point Designation For Animal Waste		
Sample Point Number	Sample Point Location, WasteType/sample Contents and Treatment Description (as applicable)	
	Schedules section of the permit.	
018	Solid Manure: Sample point 018 is for any manure solids removed from bottom of liquid waste storage facilities. This includes manure-laden sand solids, manure fiber solids, etc. Representative samples shall be taken from each waste storage facility.	
019	Calf Hutch 1 & Runoff Controls: Sample point 019 is for visual monitoring and inspection of the calf hutch area 1 and associated runoff control system located at the Dairy Site southwest of freestall barn 3. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program.	
020	Calf Hutch 2 & Runoff Controls: Sample point 020 is for visual monitoring and inspection of the calf hutch area 2 and associated runoff control system located at the Dairy Site west of calf hutch area 1. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program.	
021	Storm Water Runoff Controls: Sample point 021 is for visual monitoring and inspection of all production site storm water conveyance systems. This includes roof gutter and downspout structures, drainage tile systems, grassed waterways and other diversion systems that transport uncontaminated storm water. Proper operation and maintenance is required to keep uncontaminated runoff diverted away from manure and process wastewater handling systems. Weekly inspections are required and shall be recorded according to monitoring program.	
022	WSF 3 (solids): Sample point 022 is for waste storage facility 3 (WSF 3) located at the Dairy Site. WSF 3 is a concrete stacking pad that stores solid and liquid manure and is located east of the youngstock barn. The facility has a capacity (MOL) of 12,968 gallons and was constructed in 2012 with department approval. This storage accepts manure and process wastewater from the youngstock barn.	
023	WSF 6 (solids): Sample point 023 is for waste storage facility 6 (WSF 6) located at the Heifer Site. WSF 6 is a stacking pad that stores solid and liquid manure located to the east of freestall barn 5. The facility has a capacity (MOL) of 24,871 gallons and was constructed in 2008 with department approval. This storage accepts manure and process wastewater from freestall barn 5.	
024	Headland Stacking Solids: Sample point 024 is for solid manure stacked in approved headland stacking locations. Representative samples shall be taken of this manure prior to land application. Note: Headland stacking sites are subject to production site discharge limitations; weekly visual monitoring of runoff controls is required during use of stacking sites to ensure discharges meet permit requirements.	
025	Calf Hutch 3 & Runoff Controls: Sample point 025 is for visual monitoring and inspection of the calf hutch area 3 and associated runoff control system located on the Heifer Site. Proper operation and maintenance is required to ensure discharges meet permit requirements. Weekly inspections are required and shall be recorded according to monitoring program.	

## 1 Livestock Operations - Proposed Operation and Management

### Production Area Discharge Limitations

Beginning on the effective date of the permit, the permittee may not discharge pollutants from the operation's production area (e.g., manure storage areas, outdoor animal lots, composting and leachate containment systems, milking center

wastewater treatment/containment systems, raw material storage areas) to navigable waters, except in the event a 25-year, 24-hour rainfall event (or greater) causes the discharge from a structure which is properly designed and maintained to contain a 25-year, 24-hour rainfall event for this location (**Fond du Lac County – 4.5 inches**). If an allowable discharge occurs from the production area, state water quality standards may not be exceeded.

### **Runoff Control**

The permit requires control of contaminated runoff from all elements of the production area to prevent a discharge of pollutants to navigable waters in accordance with the Production Area Discharge Limitations and to comply with surface water quality standards and groundwater standards. Beginning on the effective date of this permit, (if needed) interim measures shall be implemented to prevent discharges of pollutants to navigable waters. In addition, permanent runoff control system(s) shall be designed, operated and maintained in accordance with the requirements found in USDA Natural Resources Conservation Service standards and ch. NR 243, Wis. Adm. Code. If any upgrading or modifications to runoff controls are necessary, formal engineering plans and specifications must be submitted to the Department for approval.

### **Manure and Process Wastewater Storage**

The permit requires the operation to have adequate storage for manure and process wastewater and that storage or containment facilities are designed, operated and maintained to prevent overflows and discharges to waters of the state. In order to prevent overflows, the permittee must maintain levels of materials in liquid storage or containment facilities at or below certain levels including a one foot margin of safety that can never be exceeded. If any upgrading or modifications to the storage facilities are necessary, formal engineering plans and specifications must be submitted to the Department for approval.

The permittee currently has approximately **200 days** of storage for liquid manure. The permittee must maintain 180 days of storage, unless temporary reductions in required storage are approved by the Department.

### **Solid Manure Stacking**

The operation has proposed to stack solid manure. All stacking of solid manure shall be done in accordance ch. NR 243, Wis. Adm. Code, which includes restrictions from NRCS Standard 313. Stacking of manure is considered to be part of the production area and is subject to the Production Area Discharge Limitations.

### **Ancillary Service and Storage Areas**

The permittee shall take preventative maintenance actions and conduct visual inspections to minimize pollutant discharges from areas of the operation that are not part of the production area or land application areas. These areas are called ancillary service and storage areas and include access roads, shipping and receiving areas, maintenance areas, refuse piles and CAFO outdoor vegetated areas.

### **Nutrient Management**

With **2,002 animal units (1,000 milking/dry cows, 545 heifers, 350 calves, 40 steers, and 30 bulls)**, it is estimated that approximately **11.7 gallons** of manure and process wastewater will be produced per year. The permittee owns *approximately* **1,646.6** acres of cropland and rents about **352.4 acres**. Given the rotation commonly used by the permittee, **1,883.7** acres are available (or open) to receive manure and process wastewater on an annual basis. The permit requires all landspreading of manure and process wastewater be completed in accordance with an approved nutrient management plan. The permit will require sampling and analysis of manure and process wastewater that will be landspread. Landspreading rates must be adjusted based on sample analysis. The permit requires the permittee to maintain a daily log that documents landspreading activities. The permit also requires the submittal of an annual report that summarizes all landspreading activities. Plans must be updated annually to reflect cropping plans and other operational changes. Among the requirements, the plans must include detailed landspreading information including field by field nutrient budgets.

The permittee is required to implement a number of practices to address potential water quality impacts associated with the land application of manure and process wastewater. Among the permit conditions are restrictions on manure ponding, restrictions on runoff of manure and process wastewater from cropped fields, and setbacks from wells and direct conduits to groundwater (e.g., sinkholes, fractured bedrock at the surface). In addition, the permittee must implement a phosphorus based nutrient management plan that addresses phosphorus delivery to surface waters by basing manure and process wastewater applications on soil test phosphorus levels or the Wisconsin Phosphorus index. Additional phosphorus application restrictions apply to fields that are high in soil test phosphorus (>100 ppm).

The permittee must also implement conservation practices when applying manure near navigable waters and their conduits, referred to as the Surface Water Quality Management Area (SWQMA). These practices include a 100-foot setback from navigable waters and their conduits, a 35-foot vegetated buffer adjacent to the navigable water or conduit, or a practice that provides equivalent pollutant reductions equivalent to or better than the 100-foot setback.

In addition, the permittee must comply with restrictions on land application of manure and process wastewater on frozen or snow-covered ground. Included in these restrictions is a prohibition on surface applications of solid manure ( $\geq 12\%$  solids) on frozen or snow-covered ground during February and March.

### Monitoring and Sampling Requirements

The permittee must submit a monitoring and inspection program that outlines how the permittee will conduct self-inspections to determine compliance with permit conditions. These self-inspections include visual inspections of water lines, diversion devices, storage and containment structures and other parts of the production area. The permit requires periodic inspections and calibrations of landspreading equipment. The permittee must take corrective actions to problems identified inspections or otherwise notify the Department. Samples of manure, process wastewater and soils receiving land applied materials from the operation must also be collected and analyzed.

### Sampling Points

The permit identifies the different sources of land applied materials (e.g., manure storage facilities, milking centers, egg-washing facilities) as “Sampling Points.” For these Sampling Points, the permittee is required to sample and analyze the different sources for nutrients and other parameters which serve as the basis for determining rates of application for these materials. Other areas are also identified as Sampling Points as a means of identifying them as areas requiring action by the permittee, such as an upgrade or evaluation of a certain system or structure (e.g., runoff control systems), even though sampling is not actually required.

### Sample Point Number: 001- WSF 1; 002- WSF 3 (liquids); 003- WSF 2; 004- WSF 5; 005- WSF 8; 013- WSF 6 (liquids)

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Nitrogen, Total		lb/1000gal	2/Month	Grab	
Nitrogen, Available		lb/1000gal	2/Month	Calculated	
Phosphorus, Total		lb/1000gal	2/Month	Grab	
Phosphorus, Available		lb/1000gal	2/Month	Calculated	

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Solids, Total		Percent	2/Month	Grab	

### 1.1.1 Changes from Previous Permit

Sample Points 001 (WSF 1), 002 (WSF 3 (liquids)), 003 (WSF 2), 004 (WSF 5), and 005 (WSF 8) were edited to include a more accurate description.

Sample Point 013 (WSF 6 (liquids)) was added to account for waste storage facility at the Heifer Site.

### 1.1.2 Explanation of Operation and Management Requirements

Wastes shall be stored and land applied according to permit and nutrient management requirements.

**Sample Point Number: 006- Dairy Site Solid Manure; 007- Heifer Site Solid Manure; 008- Steer Site Solid Manure; 014- Solid Separator System; 018- Solid Manure; 022- WSF 3 (solids); 023- WSF 6 (solids); 024- Headland Stacking Solids**

Monitoring Requirements and Limitations					
Parameter	Limit Type	Limit and Units	Sample Frequency	Sample Type	Notes
Nitrogen, Total		lbs/ton	Quarterly	Grab	
Nitrogen, Available		lbs/ton	Quarterly	Calculated	
Phosphorus, Total		lbs/ton	Quarterly	Grab	
Phosphorus, Available		lbs/ton	Quarterly	Calculated	
Solids, Total		Percent	Quarterly	Grab	

### 1.1.3 Changes from Previous Permit

Sample Points 006 (Dairy Site Solid Manure), 007 (Heifer Site Solid Manure), and 008 (Steer Site Solid Manure) were edited to include a more accurate description.

Sample Point 014 (Solid Separator System) was added to account for the solid separator system

Sample Point 018 (Solid Manure) was added to account for any solid manure removed from waste storage facilities for land application.

Sample Points 022 (WSF 3 (solids)) and 023 (WSF 6 (solids)) were added to account for solid manure in WSF 3 and WSF 6.

Sample Point 024 (Headland Stacking Solids) was added to account for headland stacking solids.

### 1.1.4 Explanation of Operation and Management Requirements

NA

**Sample Point Number: 009- Feed Area 1 & Runoff Controls; 010- Outdoor Lot 1 & Runoff Control; 011- Outdoor Lot 2 & Runoff Control; 012- Outdoor Lot 3 & Runoff Control; 015- Feed Area 2 & Runoff Control; 016- Feed Area 3 & Runoff Control; 017- Feed Area 4 & Runoff Control; 019- Calf Hutch 1 & Runoff Controls; 020- Calf Hutch 2 & Runoff Controls; 021- Storm Water Runoff Controls , and 025- Calf Hutch 3 & Runoff Controls**

### **1.1.5 Changes from Previous Permit**

Sample Points 009 (Feed Area 1 & Runoff Controls), 010 (Outdoor Lot 1 & Runoff Controls), 011 (Outdoor Lot 2 & Runoff Controls), and 012 (Outdoor Lot 3 & Runoff Controls) were edited to include a more accurate description.

Sample Points 015 (Feed Area 2 & Runoff Controls), 016 (Feed Area 3 & Runoff Controls), and 017 (Feed Area 4 & Runoff Controls) were edited to more accurately represent the feed storage at Rickert Bros.

Sample Points 019 (Calf Hutch 1 & Runoff Controls) and 020 (Calf Hutch 2 & Runoff Controls) were added to account for the calf hutch areas that Rickert Bros operates at the Main Site.

Sample Point 021 (Storm Water Runoff Controls) was added to account for storm water runoff control systems.

### **1.1.6 Explanation of Operation and Management Requirements**

The is no required sampling for the runoff controls. Rather, there is required inspection and routine maintenance that should be recorded on a monitoring and inspection form or calendar. A copy of the inspection records shall be submitted with the Annual Report.

## **2 Schedules**

### **2.1 Emergency Response Plan**

<b>Required Action</b>	<b>Due Date</b>
Develop Emergency Response Plan: Develop a written Emergency Response Plan within 30 days of permit coverage, available to the Department upon request.	02/01/2020

### **2.2 Monitoring & Inspection Program**

<b>Required Action</b>	<b>Due Date</b>
Proposed Monitoring and Inspection Program: Consistent with the Monitoring and Sampling Requirements subsection, the permittee shall submit a proposed monitoring and inspection program within 90 days of the effective date of this permit.	04/01/2020

### **2.3 Annual Reports**



Submit Annual Reports by January 31st of each year in accordance with the Annual Reports subsection in Standard Requirements.

Required Action	Due Date
Submit Annual Report #1: Shall include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2020
Submit Annual Report #2: Shall include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2021
Submit Annual Report #3: Shall include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2022
Submit Annual Report #4: Shall include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2023
Submit Annual Report #5: Shall include monitoring and inspection results from the previous 12 months, consistent with the requirements of department form 3400-025E.	01/31/2024
Ongoing Annual Reports: Continue to submit Annual Reports until permit reissuance has been completed.	

## 2.4 Nutrient Management Plan

Submit annual nutrient management plan (NMP) updates by March 31 of each year. Note, in addition to annual NMP updates, submit NMP amendments and substantial revisions to the department for written approval prior to implementation of any changes to the NMP

Required Action	Due Date
Management Plan Submittal: Submit any necessary updates to the Nutrient Management Plan to meet the conditions outlined in this permit (see conditions in the Livestock Operational and Sampling Requirements section).	03/31/2020
Management Plan Annual Update #1: Shall include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2020
Management Plan Annual Update #2: Shall include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2021
Management Plan Annual Update #3: Shall include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2022
Management Plan Annual Update #4: Shall include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2023
Management Plan Annual Update #5: Shall include actual cropping, tillage, and nutrient application data from the previous calendar or crop year, consistent with the requirements of department for 3400-025D.	03/31/2024
Ongoing Management Plan Annual Updates: Continue to submit Annual Updates to the Nutrient Management Plan until permit reissuance has been completed.	

## 2.5 Feed Storage - Engineering Evaluation

Applies to Feed Storage Areas 1 (Sample Point 009), 2 (Sample Point 015), 3 (Sample Point 016), and 4 (Sample Point 017).

Required Action	Due Date
Retain Qualified Engineering Expert: The permittee shall retain a qualified engineering expert to complete an engineering evaluation for the feed storage areas and report the name of the expert to the Department.	06/01/2020
Complete Engineering Evaluation of Existing System: Submit an engineering evaluation that includes a written description of the existing feed storage area and its adequacy to meet the conditions found in the Production Area Discharge Limitations subsection and NR 243.15, Wis. Adm. Code.	12/31/2020
Plans and Specifications: Submit plans and specifications for Department review and approval to permanently correct any adverse conditions identified as part of the engineering evaluation for the feed storage area in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code.	06/01/2021
Corrections and Post Construction Documentation: Complete construction of improvements to permanently correct any adverse conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of completion of the project.	12/31/2021

## 2.6 Manure Storage Facility - Engineering Evaluation

Applies to WSF 1 (Sample Point 001).

Required Action	Due Date
Retain Qualified Engineering Expert: Retain a qualified expert to complete an engineering evaluation for the manure storage facility and report the name of the expert to the Department.	06/01/2020
Complete Engineering Evaluation of Existing System: Submit a written report evaluating the existing manure storage facility's ability to meet the conditions in the Production Area Discharge Limitations and Manure and Process Wastewater Storage subsections and s. NR 243.15, Wis. Adm. Code. (See Standard Requirements for report details.)	12/31/2020
Plans and Specifications: Submit plans and specifications for Department review and approval in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code, to permanently correct any adverse manure storage conditions.	06/01/2021
Corrections and Post Construction Documentation: Complete construction on the manure storage facility that permanently corrects any adverse conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of completion of the project.	12/31/2021

## 2.7 Runoff Control System - Engineering Evaluation

Applies to Outdoor Lot 3 (Sample Point 012).

Required Action	Due Date
Retain Qualified Engineering Expert: Retain a qualified expert to complete an engineering evaluation for the runoff control system for outdoor lot 3 and report the name of the expert to the Department.	06/01/2020

Complete Engineering Evaluation of Existing System: Submit a written report that serves as an engineering evaluation of the existing runoff control system and its adequacy to permanently meet the conditions in the Production Area Discharge Limitations and Runoff Control subsections and s. NR 243.15, Wis. Adm. Code. (See Standard Requirements for report details.)	12/31/2020
Plans and Specifications: Submit plans and specifications for Department review and approval to permanently correct any adverse runoff control conditions in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code.	06/01/2021
Corrections and Post Construction Documentation: Complete construction of runoff controls that permanently correct any adverse runoff control conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of completion of the project.	12/31/2021

## 2.8 Runoff Control System - Engineering Evaluation

Applies to Outdoor Lot 2 (Sample Point 011). Complete engineering evaluation or abandonment of outdoor lot 2.

Required Action	Due Date
Retained Qualified Engineering Expert: Retain a qualified engineering expert to complete an engineering evaluation for the runoff control system for outdoor lot 2 and report the name of the expert to the Department.	06/01/2020
Complete Engineering Evaluation of Existing System: Submit a written report that serves as an engineering evaluation of the existing runoff control system and its adequacy to permanently meet the conditions in the Production Area Discharge Limitations and Runoff Control subsections and s. NR 243.15, Wis. Adm. Code. (See Standard Requirements for report details.)	12/31/2020
Submit Abandonment Plan: Submit an abandonment plan for runoff control system to the Department for approval outlining the proposed method of abandonment.	12/31/2020
Plans and Specifications: Submit plans and specifications for Department review and approval to permanently correct any adverse runoff control conditions in accordance with Chapter 281.41, Wis. Stats., and Chapter NR 243, Wis. Adm. Code.	06/01/2021
Corrections and Post Construction Documentation: Complete construction of runoff controls that permanently correct any adverse runoff control conditions in concurrence with and approval by the Department, by the specified Date Due. Submit post construction documentation within 60 days of completion of the project.	12/31/2021
Complete Abandonment: Complete abandonment as approved by the Department.	12/31/2021

## 2.9 Submit Permit Reissuance Application

Required Action	Due Date
Reissuance Application: Submit a complete permit reissuance application 180 days prior to permit expiration.	06/30/2024

## 2.10 Explanation of Schedules

**Schedules are included in the permit to ensure compliance with s. NR 243, Wis. Admin. Code, requirements. Schedules for the following items have been incorporated into the permit:**

The schedules contained in 2.1, 2.2, 2.3, 2.4, and 2.9 are standard permit schedules.

The schedules contained 2.6 (Sample Point 001: WSF 1) and 2.7 (Sample point 012: Outdoor Lot 3) are being required in accordance with s. NR 243.16(2), Wis. Adm. Code, due to the age of the facility or system. WSF 1 was constructed in 1999 and Outdoor Lot 3 is at least 20 years old.

The schedules contained in 2.5 for all feed storage areas at Rickert Bros Heifer Site are being required in accordance with s. NR 243.16, Wis. Adm. Code. The engineering evaluation for feed storage area 1 (Sample Point 009) is being required due to the change in operation of the storage area for sweet corn silage. The engineering evaluation for feed storage area 2 (Sample Point 015) is being required based on the observations made during the compliance inspection. The engineering evaluation for feed storage area 3 (Sample Point 016) and feed storage area 4 (Sample Point 017) are being required based changes in the operation.

The schedule contained in 2.8 (Sample Point 011: Outdoor Lot 2) is being required in accordance with s. NR 243.16 (2) based on age and s. NR 243.17 (7). An engineering evaluation is required if Rickert Bros continues to use Outdoor Lot 2 or an abandonment plan is required if Rickert Bros plans to abandon Outdoor Lot 2.

## Special Reporting Requirements

NA

## Other Comments:

NA

## Attachments:

Sample Point Map

## Proposed Expiration Date:

12/31/2024

## Justification Of Any Waivers From Permit Application Requirements

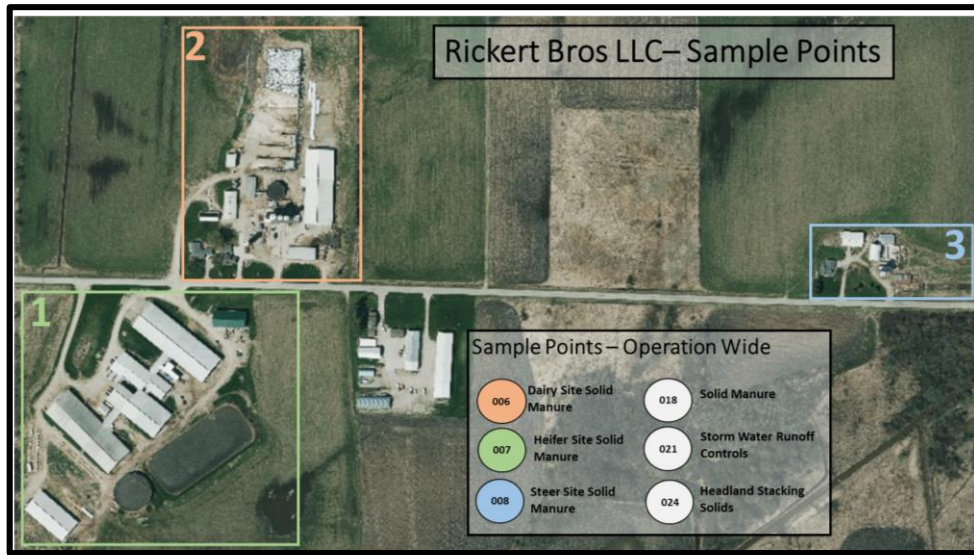
NA

## Prepared By:

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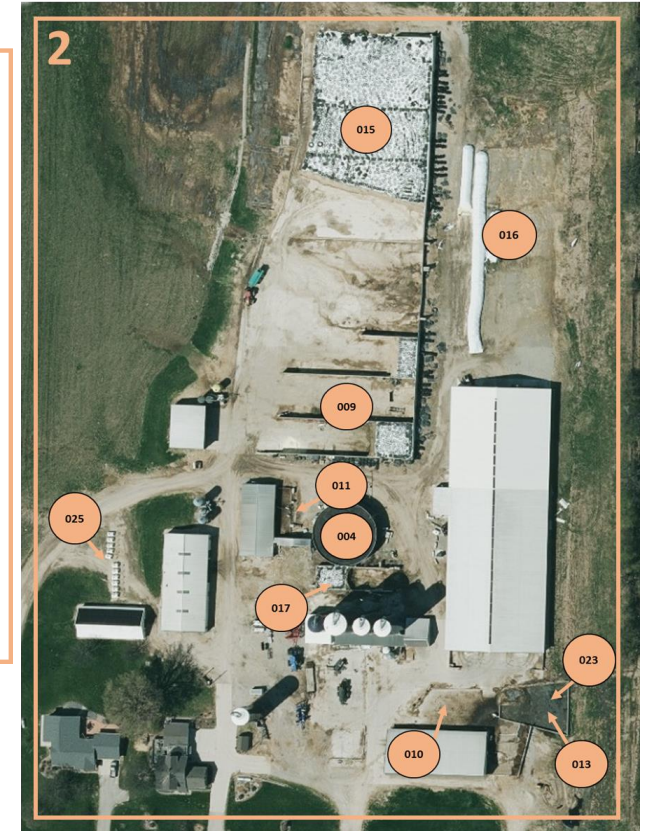
Date: 10/10/2019





## Sample Points – Heifer Site

- 004 WSF 5
- 009 Feed Area 1 & Runoff Controls
- 010 Outdoor Lot 1 & Runoff Controls
- 011 Outdoor Lot 2 & Runoff Controls
- 013 WSF 6 (liquids)
- 015 Feed Area 2 & Runoff Controls
- 016 Feed Area 3 & Runoff Controls
- 017 Feed Area 4 & Runoff Controls
- 020 Feed Area 4 & Runoff Controls
- 023 WSF 6 (solids)
- 025 Calf Area 3 & Runoff Controls



## Sample Points – Dairy Site

- 001 WSF 1
- 002 WSF 3 (liquids)
- 003 WSF 2
- 014 Solid Separator System
- 019 Calf Area 1 & Runoff Controls
- 020 Calf Area 2 & Runoff Controls
- 022 WSF 3 (solids)



## Sample Points – Steer Site

- 005 WSF 8
- 012 Outdoor Lot 3 & Runoff Controls